

CLAIMS:

1. A digital broadcast receiver unit for receiving a digital multiplexed signal stream having multiplexed signals commonly encoded using a same encoding/decoding standard, said multiplexed signals including video signals corresponding to a plurality of different video signal formats, and isolating and reproducing at least one video signal, said unit comprising:

a selector to select and extract one video signal from a received said digital multiplexed signal;

a decoder to decode the video signal from said selector according to said encoding/decoding standard;

a plurality of video processor sections, with respective video processor sections providing video processing according to a different video signal format of said plurality of different video signal formats; and

a controller using information from the received said digital multiplexed signal to determine a video signal format of said video signal from said decoder, and selecting one video processor section of said video processor sections to perform video processing of said video signal according to a determined video signal format thereof.

2. A unit as claimed in claim 1, wherein said digital multiplexed signal is more specifically a packetized digital multiplexed signal with differing groups of packets relating to said different video signal formats, and wherein said selector selecting and extracting a group of packets relating to said one video signal from a received said digital multiplexed signal.

3. A unit as claimed in claim 2, wherein said packetized digital multiplexed signal further contains a separate group of control packets containing at least one of packet identification information, control information, video signal format information, and on-screen display information, related to ones of said differing groups of packets.

4. A unit as claimed in claim 2, wherein each individual packet of said packetized digital multiplexed signal more specifically contain a sub-packet portion containing at least one of packet identification information, control information, video signal format information and on-screen display information, related to said individual packet.

5. A unit as claimed in claim 1, wherein said plurality of video processor sections is more specifically a plurality of discrete video processors.

6. A unit as claimed in claim 1, wherein said plurality of video processor sections is more specifically provided via at least one of a common application specific integrated circuit (ASIC) and a common microprocessor adapted to selectively perform processing according to any of said plurality of video processor sections.

7. A unit as claimed in claim 6, wherein said selecting by said controller is more specifically performed by said controller selectively performing processing with respect to said one video processor section while not performing processing with respect to other ones of said video processor sections.

8. A unit as claimed in claim 1, wherein said selecting by said controller is more specifically performed by a selector switch controlled to select any output of outputs from said video processor sections, according to said determined video signal format.

9. A unit as claimed in claim 1, wherein said selecting by said controller is more specifically performed by a selector switch controlled to select any input signal of a plurality of input signals to said video processor sections, said plurality of input signals corresponding to said plurality of different video signal formats, respectively.

10. A unit as claimed in claim 1, wherein said selecting by said controller is more specifically performed by said controller selectively enabling said one video processor section while disabling other ones of said video processor sections.

11. A unit as claimed in claim 1, wherein said encoding/decoding standard is more specifically a Moving Picture Experts Group (MPEG) encoding/decoding standard.

12. A unit as claimed in claim 1, wherein said digital multiplexed signal further includes at least one of an audio signal and an information signal.

13. A digital broadcast receiver unit for receiving a digital multiplexed signal stream having multiplexed signals commonly encoded using a same encoding/decoding standard, said multiplexed signals including digitally converted audio signals, different kinds of information and video signals corresponding to a plurality of video signal scanning methods, and for isolating and reproducing at least one signal from among said

audio signals, said video signals and said different kinds of information, said unit comprising:

a demodulation means for tuning in a channel of a received signal and performing demodulation thereof;

a multiplex isolation means to isolate an audio signal, a video signal and other types of data coded from said multiplexed signals output from said demodulation means;

a decoding means to decode said audio signal and said video signal from said multiplex isolation means;

a plurality of video processing means for performing processing of said video signal from said decoding means, according to said plurality of video signal scanning methods;

an output selection means for selecting an output from said plurality of video processing means; and

a control means for determining a scanning method of said video signal of said channel, and for controlling said output selection means based on a determined said scanning method for said video signal.

14. A unit as claimed in claim 13, wherein said scanning method is determined by analyzing information provided by said decoding means.

15. A unit as claimed in claim 13, wherein said control means operates based on information isolated with said multiplex isolation means, such information being used for determining said scanning method of said channel.

16. A unit as claimed in claim 13, wherein signals according to said plurality of video signal scanning methods are output from a common output terminal.

17. A unit as claimed in claim 13, wherein signals according to said plurality of video signal scanning methods are sent from respective different output terminals.

18. A unit as claimed in claim 13, wherein an optical signal output means is provided to output an optical signal containing information designating a determined said scanning method of said video signal for said channel.

19. A unit as claimed in claim 13, wherein an electrical signal output means is provided to output an electrical signal containing information designating a determined said scanning method of said video signal for said channel.

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A unit as claimed in claim 13, wherein a radio frequency signal output means is provided to output a radio frequency signal containing information designating a determined said scanning method of said video signal for said channel.

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A unit as claimed in claim 13, further comprising a display means operable according to said plurality of video signal scanning methods, and wherein said control means switches a video signal scanning method for said display means based on a determined said scanning method of said video signal for said channel.

22 A unit as claimed in claim 13, wherein said control means is capable of stopping total or partial operation of said plurality of video processing means.

23 A digital broadcast receiver unit for receiving a digital multiplexed signal stream having multiplexed signals commonly encoded using a same encoding/decoding standard, said multiplexed signals including digitally converted audio signals, different kinds of information and video signals corresponding to at least two video signal scanning methods, and for isolating and reproducing at least one signal from among said audio signals, said video signals and said different kinds of information, said unit comprising:

a demodulation means for tuning in a channel of a received signal and performing demodulation thereof;

a multiplex isolation means to isolate an audio signal, a video signal and other types of data coded from said multiplexed signals output from said demodulation means;

a decoding means to decode said audio signal and said video signal from said multiplex isolation means;

a plurality of video processing means for performing processing of said video signal from said decoding means, according to said at least two video signal scanning methods;

a control means for determining a scanning method of said video signal of said channel, and for operating said plurality of video processing means based on a determined said scanning method for said video signal.